

WHAT IS CLAIMED IS:

1. A light guide apparatus for enhancing light source utilization efficiency, comprising:

a light guide sheet;

5 a light coupling structure arranged on a surface of the light guide sheet and opposite to a light source; and

a light emerging structure disposed on a surface of light guide sheet;

wherein light emitted by the light source can be introduced into the light guide sheet by the light coupling structure and can be drawn out of the light guide sheet by the
10 light emerging structure, thereby enhancing light source utilization efficiency.

2. The light guide apparatus as claimed in claim 1, wherein the light guide sheet is made of a material having a refractive index greater than that of the outer environment where the light source locates.

3. The light guide apparatus as claimed in claim 2, wherein the material of the
15 light guide sheet is a material selected from the group consisting of polycarbonate (PC), polyethylene terephthalate (PET) and poly methyl methacrylate (PMMA).

4. The light guide apparatus as claimed in claim 1, wherein light coupling structure is formed with at least one groove extending along the light source, allowing the lights emitted by the light source to be introduced into the light guide sheet via the
20 groove.

5. The light guide apparatus as claimed in claim 4, wherein the groove is of a shape selected from the group consisting of a circular shape, triangle shape, polygon shape and irregular shape.

6. The light guide apparatus as claimed in claim 4, wherein the center of the
25 light source is disposed at a geometrical center of the section of the groove.

7. The light guide apparatus as claimed in claim 6, wherein the light coupling structure is disposed substantially under the light source, and the distance from the

geometrical center of the groove to the center of the light source is adjustable according to the amount of the coupling lights needed.

8. The light guide apparatus as claimed in claim 1, wherein the light emerging structure comprises at least one micro structure for evenly distributing the light emitted
5 by the light source.

9. The light guide apparatus as claimed in claim 8, wherein the micro structure is a structure selected from the group consisting of an rhombic structure, a circular dot structure and an irregular structure.

10. The light guide apparatus as claimed in claim 1, which is applicable to a
10 backlight module.

11. The light guide apparatus as claimed in claim 1, further comprising a reflecting surface provided at a side of the light guide apparatus against the light source, in order to act as an illuminating device.